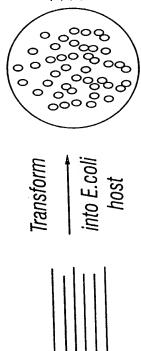


FIG. 1



microtiter plates

Distribute into

FIG. 2

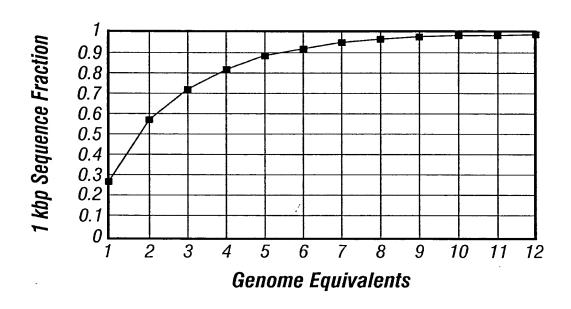


FIG. 3

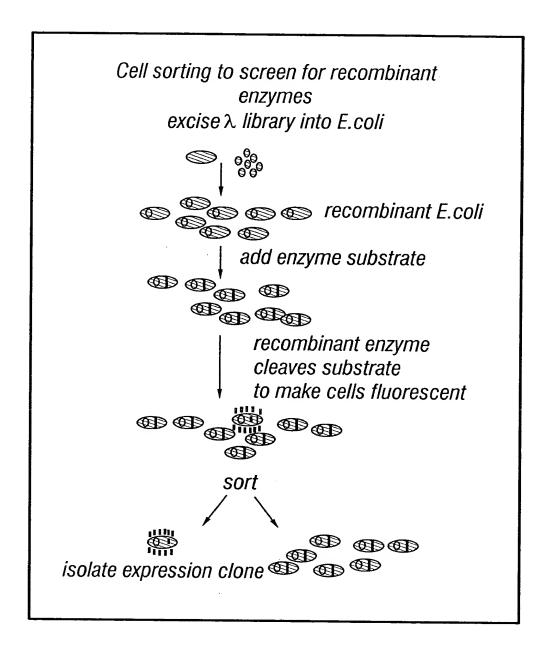


FIG. 4

β -Gal clone with different substrates

- cells were stained with FDG,
 CMFDG or
 C12FDG,
 incubated for 30
 min. at 70°C,
 spotted onto a
 slide and exposed
 to UV light.
- bright spot indicates staining of cells

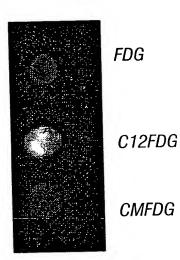
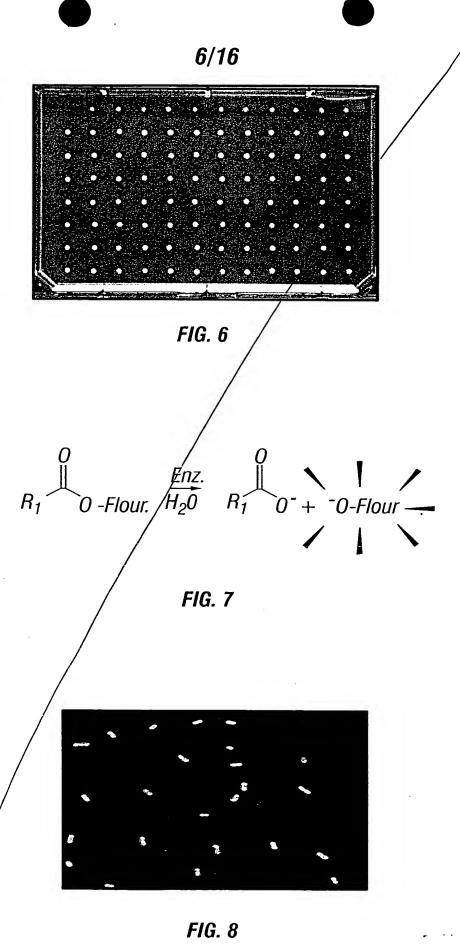


FIG. 5



Rof. 1

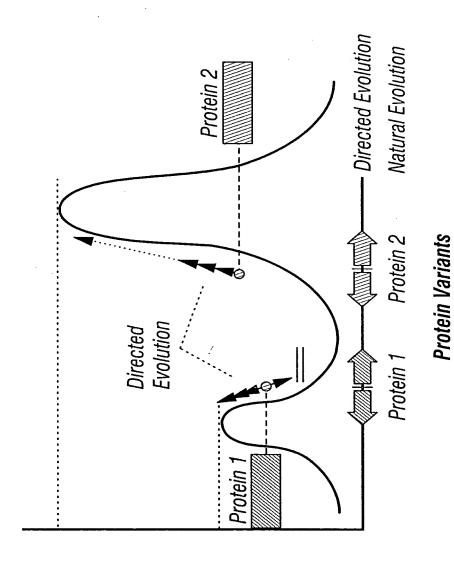
H₃C(H₂C)
$$\stackrel{O}{\longrightarrow}$$
 $\stackrel{O}{\longrightarrow}$ \stackrel

FIG. 9

$$H_2N$$
 H_2N
 H_2N

FIG. 11

FIG. 12



Enzyme Activity

Relative

Buffer Compatibility
 Process Compatibility

T StabilitySolvent StabilityExpression Level

FIG. 13

Co-encapsulation Library + Eukaryote

Growth and expression of small molecule from host

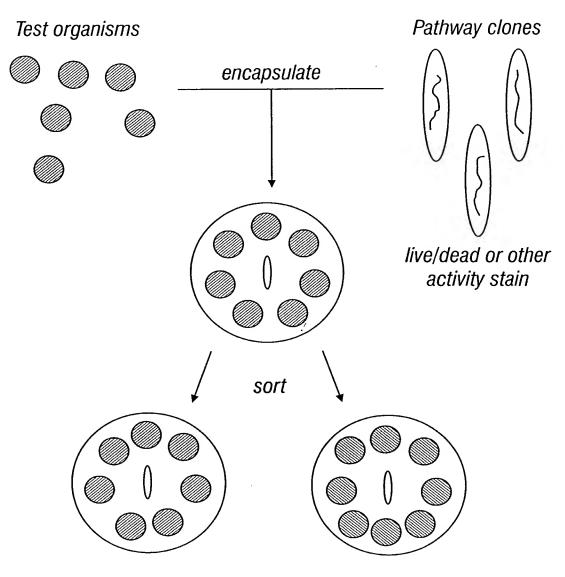
Receptor binding of small molecule & GFP reporting

E=Eukaryotic assay organism L=1 GFP= Green fluorescent protein R=

L=Large insert library R=Eukaryotic receptor

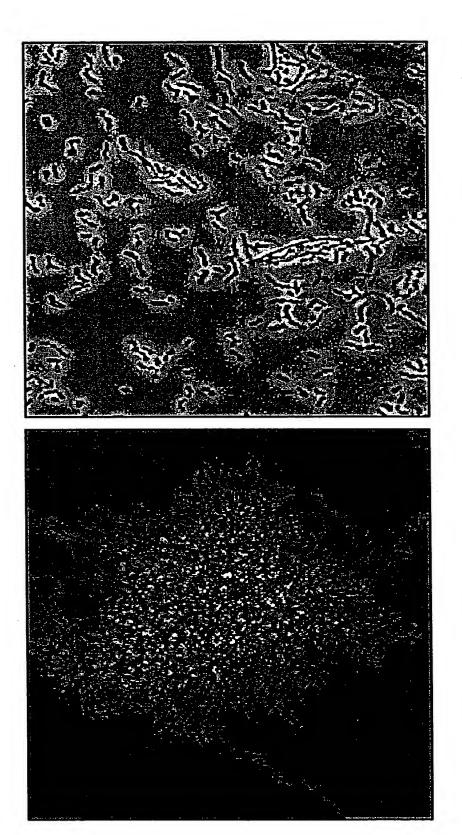
SM=Small molecule

FIG. 14



bioactive expression (e.g. live/dead, groth rate, metabolic stains etc.)

FIG. 15



Streptomyces lividans mycelia

Streptomyces "diversa" Unicells

FIG. 16

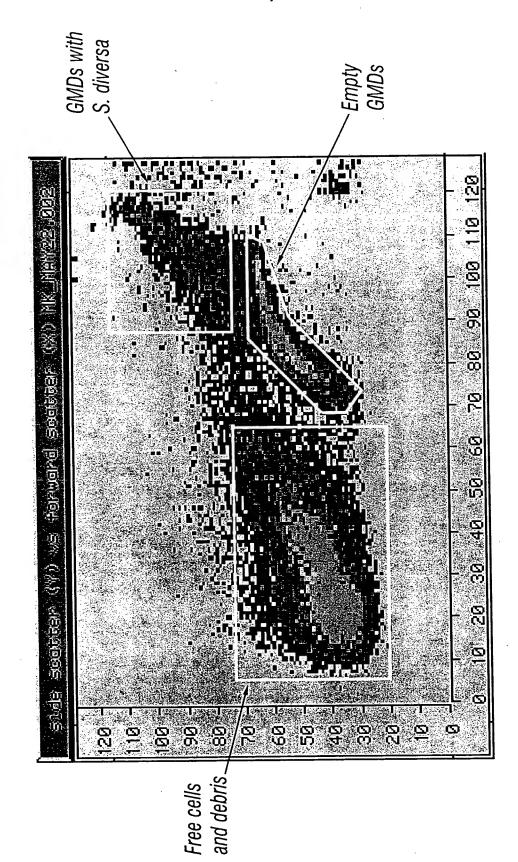


FIG. 17

